

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2004/002426

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07F15/00 C07F9/02 B01J31/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	DOMINGUEZ, BEATRIZ ET AL: "Electrophilic Substitution of Dibromoparacyclophane: A Route to Novel Paracyclophane Phosphine Ligands" ORGANIC LETTERS, 6(12), 1927-1930 CODEN: ORLEF7; ISSN: 1523-7060, 2004, XP002293802 schemes 2,3 tables 1,2	1-13,15
A	WO 01/74829 A (CHIROTECH TECHNOLOGY LTD) 11 October 2001 (2001-10-11) cited in the application column 17	
A	US 5 276 053 A (JOHNSON GRAHAM) 4 January 1994 (1994-01-04) column 17	1,11
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

25 August 2004

Date of mailing of the international search report

15/10/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>BARTHOLOMEW, GLENN P. ET AL: "Synthesis, Characterization, and Spectroscopy of 4,7,12,15-'2.2!Paracyclophane Containing Donor and Acceptor Groups: Impact of Substitution Patterns on Through-Space Charge Transfer"</p> <p>JOURNAL OF THE AMERICAN CHEMICAL SOCIETY , 124(18), 5183-5196 CODEN: JACSAT; ISSN: 0002-7863, 2002, XP002293803 page 5187; compound 13</p>	9
X	<p>-----</p> <p>PELTER, ANDREW ET AL: "The synthesis of homochiral ligands based on '2.2!paracyclophane"</p> <p>TETRAHEDRON LETTERS , 42(47), 8391-8394 CODEN: TELEAY; ISSN: 0040-4039, 2001, XP004311327 page 8392; figure 2; compound 20</p>	9,10
X	<p>-----</p> <p>DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; NOUR-EL-DIN, AHMED M. ET AL: "Chemical reactions on thin-layer chromatoplates: Part I. Reactions of nitrones and '2.2!paracyclophanes"</p> <p>XP002293804 retrieved from STN Database accession no. 1983:575529 abstract & INDIAN JOURNAL OF CHEMISTRY, SECTION B: ORGANIC CHEMISTRY INCLUDING MEDICINAL CHEMISTRY , 22B(5), 477-80 CODEN: IJSBDB; ISSN: 0376-4699, 1983,</p> <p>-----</p>	9,10

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Information on patent family members

ational Application No

PCT/GB2004/002426

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0174829	A	11-10-2001	AU 3944201 A	15-10-2001
			CA 2414049 A1	11-10-2001
			EP 1276745 A1	22-01-2003
			WO 0174829 A1	11-10-2001
			US 2002026064 A1	28-02-2002
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US 5276053	A	04-01-1994	US 5071853 A	10-12-1991
			US 5180736 A	19-01-1993
			AU 638237 B2	24-06-1993
			AU 5213390 A	27-09-1990
			CA 2012866 A1	23-09-1990
			EP 0388977 A2	26-09-1990
			IE 62199 B1	28-12-1994
			JP 3184943 A	12-08-1991
			NO 901321 A ,B,	24-09-1990
			NZ 233032 A	27-09-1993
			NZ 243733 A	27-09-1993
			NZ 243734 A	27-09-1993
			PT 93540 A	07-11-1990
			ZA 9002227 A	27-11-1991
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